

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) An apparatus for testing data paths and/or video sources on an integrated circuit, comprising:

a switching device configured to couple one or more video sources to one or more destinations, the switching device including a plurality of input and output ports, each input port being connectable to one of (i) a single one of the output ports, (ii) a plurality of the output ports simultaneously, and (iii) all of the output ports simultaneously, via data-paths, the switching device including a separate testing output port selectably configurable to couple to only one of the data-paths; and

a controller connectable to the switching device via the separate testing output port to (i) connect the only one data path to a data collection device and (ii) permit analysis of at least one from the group including (a) one or more of the data paths and (b) one or more of the video sources, via the connected only one data-path;

wherein the permitted analysis is based only on data received at the testing output port through the only one data path.

2. (Original) The apparatus of claim 1, wherein the switching device includes video cross-bar devices.

3. (Original) The apparatus of claim 1, wherein the testing output port includes a cyclic redundancy checksum (CRC) port.

4. (Original) The apparatus of claim 1, wherein the analysis includes CRC checksum checking.

5. (Original) The apparatus of claim 1, wherein data collection device is a CRC module.

6. (Currently Amended) An apparatus comprising:

a first switching device having a plurality of first input and output ports coupled together via first internal paths, each first input port being connectable to one of (i) a single one of the first output ports, (ii) a plurality of the first output ports simultaneously, and (iii) all of the first output ports simultaneously;

at least a second switching device including an input side having a plurality of second input ports and an output side having a plurality of second output ports, the second input and output ports being coupled together via second data paths, the first output ports being connected to corresponding ones of the second input ports, the second switching device including a separate testing output port;

wherein the separate testing output port is selectably configurable to permit monitoring of only one from the group including (i) only a selected one of the first input and output ports, (ii) only a selected one of the first data paths, (iii) only a selected one of the second input and output ports, and (iv) only a selected one of the second data paths;

a controller connectable to the second switching device via the separate testing output port to (i) connect the only one first or second data path or a selected pair of a first data path and a second data path to a data collection device and (ii) permit analysis of at least one from the group including (a) one or more of the data paths and (b) one or more of the video sources, via the connected only one data;

wherein the permitted analysis is based only on data received at the testing output port through the only one data path.

7. (Original) The apparatus of claim 6, further comprising a data collection device configured for coupling to the testing output port.

8. (Original) The apparatus of claim 7, wherein the data collection device is a cyclic redundancy check (CRC) module.

9. (Original) The apparatus of claim 8, wherein the monitoring includes CRC checksum checking of internal states of devices coupled to one or more of the first and second input and output ports.

10. (Previously Presented) The apparatus of claim 9, further comprising one or more scaling devices connected between selected ones of the first output ports and the second input ports, wherein the testing output port facilitates CRC checksum checking of the one or more scaling devices.